

ABSTRACT

A vehicle frame assembly comprises a hydroformed vertical member (e.g., b-pillar), a hydroformed longitudinal member (e.g., roof rail), and a cross member with a transition flange wrapping above or below the longitudinal member. The transition flange provides rounded corners to enhance the door seal feature. In the preferred embodiment, the transition flange may be integrally formed as part of a stamped cross member or may be a separately formed transition bracket member attached to the cross member.

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